

Title (en)

ELECTRONIC DEVICE COMPRISING SPEAKER AND OPERATION METHOD OF SAME

Title (de)

ELEKTRONISCHE VORRICHTUNG MIT LAUTSPRECHER UND BETRIEBSVERFAHREN DAFÜR

Title (fr)

DISPOSITIF ÉLECTRONIQUE COMPRENANT UN HAUT-PARLEUR ET PROCÉDÉ DE FONCTIONNEMENT DUDIT DISPOSITIF

Publication

EP 4216021 A4 20240117 (EN)

Application

EP 21894984 A 20211109

Priority

- KR 20200154071 A 20201117
- KR 20210046040 A 20210408
- KR 2021016174 W 20211109

Abstract (en)

[origin: EP4216021A1] An electronic device according to an embodiment of the present document comprises: a first housing; a second housing coupled to the first housing so as to be movable with respect to the first housing; a speaker which is disposed in the first housing and outputs an audio signal; a flexible display which is at least partially disposed in the first and second housings, and in which the size of an area visually exposed through the front side of the electronic device can be expanded according to the movement of the second housing; a first duct line formed in the first housing so that the audio signal is output to the outside of the first housing; a second duct line which, in a state where the moved distance of the second housing is within a first range, is formed at a position corresponding to the first duct line, and is formed in the second housing so that the audio signal is output to the outside of the electronic device via the first duct line; a third duct line which, in a state where the moved distance of the second housing is within a second range, is connected to the first duct line, and is formed in the second housing so that the audio signal is output to the outside of the electronic device; and a processor operatively connected to the speaker and the flexible display, wherein the processor can sense the moved distance of the second housing with respect to the first housing, and correct the characteristics of the audio signal, generated by the speaker, on the basis of the sensed moved distance. According to various embodiments described herein, the shapes of duct lines for acoustic emission from an audio module such as the speaker are changed in response to changes in the shape of the electronic device, and thus an optimal acoustic service can be provided to a user through a structure that is adaptive to the changes in shape.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

- [I] US 2020264660 A1 20200820 - SONG INSU [KR], et al
- [A] WO 03030518 A1 20030410 - ERICSSON TELEFON AB L M [SE], et al
- [A] EP 1596561 A2 20051116 - NOKIA CORP [FI]
- [A] KR 20190143029 A 20191230 - SAMSUNG ELECTRONICS CO LTD [KR]
- [A] US 2008268793 A1 20081030 - NELSON GLENN R [US], et al
- See also references of WO 2022108213A1

Designated contracting state (EPC)

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DOCDB simple family (application)

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